



Montville Power LLC
Montville Generating Station
74 Lathrop Road
Uncasville, CT 06382

March 13, 2017

Permit Coordinator
Bureau of Water Protection and Land Reuse, Remediation Division
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5127

**Subject: TA-326 – 4 Weeks Post-Injection Monitoring Data Transmittal
Groundwater Injection Pilot Test
Montville Generating Station, Montville Power LLC, Montville, CT**

To Permit Coordinator:

In accordance with Section VI.B.3.d of Temporary Authorization No. TA-326 issued on November 9, 2016, Montville Power LLC is submitting this data summary review to the Connecticut Department of Energy and Environmental Protection (CTDEEP) for the subject site. The results are for the groundwater monitoring conducted 4 weeks after the groundwater injection Pilot Test.

"I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense."

Should you have any questions or require further information, please call Mr. Ian Cambridge at (860) 848-6017.

Thank you,

A handwritten signature in dark ink, appearing to read "Nick Volturno", with a long, sweeping horizontal line extending to the right.

Nick Volturno
Plant Manager
Montville Power LLC

cc: Jessica Stefanowicz, CTDEEP (e-copy only)
Juan Perez, USEPA (e-copy only)
Robert Spooner, NRG (e-copy only)
Ian Cambridge, NRG Montville (hard copy and e-copy)
Andrew D. Walker, LEP, CB&I (e-copy only)



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March 6, 2017

Project #: 631207126.12021320

Permit Coordinator
Bureau of Water Protection and Land Reuse, Remediation Division
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106-5027

Subject: TA-326 – 4 Weeks Post-Injection Monitoring Data Transmittal
Groundwater Injection Pilot Test
Montville Generating Station, Montville, Connecticut

Dear Permit Coordinator:

On behalf of Montville Power LLC (Montville Power) and its parent company, NRG Energy, Inc. (NRG), CB&I Environmental and Infrastructure, Inc. (CB&I) has prepared this data transmittal as required by Section VI.B.3.d of Temporary Authorization (TA)-326 issued by the Connecticut Department of Energy & Environmental Protection (CTDEEP) on November 9, 2016 (CTDEEP, 2016b). This transmittal summarizes the groundwater monitoring conducted 4 weeks after completion of the groundwater injection Pilot Test conducted in accordance with the Groundwater Remedial Action Plan (Groundwater RAP; CB&I, 2016a) and the permit application submitted for TA-326.

Groundwater Sampling

Groundwater monitoring was conducted on January 17, 2017. Groundwater samples were collected from new pilot test area monitoring wells AOC12-MW401, located in the EnviroBlend (EB) injection area, and AOC12-MW402, located in the TerraBond (TB) injection area. Approximate well locations are provided in **Figure 1**.

Depth to groundwater was measured at each of the monitoring wells using an electronic interface probe (IP). The IP used detects water and light non-aqueous phase liquid (LNAPL), if present, to within accuracy of 0.01 foot. LNAPL was not detected in monitoring wells gauged during this event. Depth to water was measured at 12.05 feet from top of PVC for AOC12-MW401 and 7.25 feet for AOC12-MW402. These measurements are 0.55 and 0.65 feet higher than baseline, respectively. The water level data will be tabulated and converted to elevation after the wells have been surveyed.

CB&I collected groundwater samples from the monitoring wells using a modified low flow sampling technique. Each well was pumped at a rate that produced little or no draw down while parameters including temperature, pH, oxidation reduction potential (ORP), dissolved oxygen (DO), conductivity, and turbidity were monitored. Logs of field water quality parameters at these wells are provided in **Attachment 1** and final readings are summarized in **Table 1**. Groundwater samples were then collected after the parameters stabilized to ensure that each sample was representative of local aquifer conditions. Based on the Groundwater RAP and the permit application submitted for TA-326, groundwater samples were submitted to SGS Accutest Laboratories of Marlborough, Massachusetts for analysis of total and dissolved metals (arsenic, iron, magnesium, and vanadium; Method EPA 200.7); sulfate (Method ASTM516-90,02); nitrogen, nitrate, and nitrite (Method EPA 353.2); orthophosphate

(Method EPA 365.3); nitrogen nitrite (Method SM 21 4500 NO2 B); total organic carbon (Method SM21 5310 B); and sulfide (Method SM4500S2-F-11). The complete laboratory analytical report for the 4 weeks post-injection groundwater sampling event is included in **Attachment 2**.

Groundwater Results

Groundwater analytical results from the 4 weeks post-injection sampling event are summarized in **Tables 1 and 2**. As appropriate, **Table 1** compares groundwater analytical results to the Surface Water Protection Criteria (SWPC), Additional SWPC (vanadium), and Alternative SWPC (arsenic). CTDEEP approved the Additional and Alternative SWPC for the subject site in their March 13, 2013 letter (CTDEEP, 2013). **Table 2** compares groundwater analytical results to CTDEEP Water Quality Criteria (WQC) for aquatic life per Section VI.B.1.I of TA-326.

The data presented in **Table 1** indicates:

- Concentrations of total arsenic detected in January 2017 were 35.2 micrograms per liter (µg/L) at AOC12-MW402 and 41.0 µg/L at AOC12-MW401. The concentrations of total arsenic detected are greater than the Alternative SWPC (10 µg/L) at both wells (plus one field duplicate). These detections are lower in AOC12-MW401 and higher in AOC12-MW402 than the baseline results from December 2016. Dissolved arsenic concentrations are comparable to the total arsenic concentrations in each well.
- Concentrations of total vanadium detected in January 2017 were non-detect at AOC12-MW402 and 284 µg/L at AOC12-MW401. The concentrations of total vanadium are significantly less than the ASWPC of 4,400 µg/L at both wells. The total vanadium concentration at AOC12-MW401 is higher than the baseline result from December 2016. The dissolved vanadium concentration at AOC12-MW401 is non-detect and comparable to the baseline result.
- Total and dissolved iron and magnesium concentrations in January 2017 were lower than the baseline results from December 2016. There are no ASWPC for comparison of results. These metals and geochemistry parameters were analyzed to evaluate reagent activity and not for compliance monitoring.
- Concentrations of nitrate detected in January 2017 were lower at AOC12-MW402 than the baseline results from December 2016.
- Concentrations of sulfate detected in January 2017 were higher at AOC12-MW402 than the baseline results from December 2016.
- Concentrations of orthophosphate and sulfate detected in January 2017 were lower at AOC12-MW401 than the baseline results from December 2016.

The data presented in **Table 2** indicates that the concentrations of dissolved arsenic at both wells in January 2017 are less than the acute Water Quality Criteria (WQC) for saltwater of 69 ug/L. There are no WQC for the other metals for comparison.

Laboratory Analytical - QA/QC Evaluation

Laboratory analysis completed as part of this assessment was conducted in accordance with CTDEEP's Reasonable Confidence Protocol and the site specific Quality Assurance Project Plan (QAPP). The site specific QAPP was developed for the subject site in accordance with U.S. Environmental Protection Agency (USEPA) guidance (Shaw, 2011). The QAPP presents the requirements and procedures for conducting field sampling activities and investigations at the site so that (1) the data quality objectives specified for this project are met, (2)

the field sampling protocols are documented and reviewed in a consistent manner, and (3) scientifically valid and defensible data are collected. Field sampling activities discussed above were completed in general compliance with the QAPP that has been generated for the site.

CB&I requested that laboratory analysis be conducted in accordance with the QAPP and CTDEEP's Reasonable Confidence Protocol (CTDEP, 2007). CB&I performed a data validation review for the laboratory report and documented the results in a data validation worksheet. The data validation worksheet is included with the laboratory report in **Attachment 2**. This worksheet is consistent with the data quality assessment and data usability evaluations detailed in CTDEEP guidance (CTDEP, 2009)

In general, laboratory analyses were completed in accordance with the site QAPP and CTDEEP's Reasonable Confidence Protocol. However, a few minor quality assurance/quality control (QA/QC) issues, which are summarized in the validation worksheet and laboratory report narrative, were identified. These identified QA/QC issues resulted in some detection limits and reported results being qualified. QA/QC issues noted included:

- The orthophosphate samples were filtered in the field at the time of sample collection; however, the laboratory missed the note on the chain of custody and sample labels and filtered the orthophosphate samples again at the laboratory prior to analysis. The method requires field filtration within 15 minutes of sampling. No qualification is necessary.
- The relative percent difference (RPD) for duplicate for Nitrogen, Nitrate+Nitrite for one sample was above QC limits. However, no qualification is necessary because the sample result was non-detect.
- The RPD of a serial dilution sample indicated possible matrix interference for magnesium. However, no qualification is necessary because the sample was not a project sample and batch QC was performed.

A number of sample results were reported at concentrations less than the reporting limit, but greater than the method detection limit. Although this is not specifically a QA/QC issue, the results should be considered estimated and are flagged with a "J". In summary, each of the identified issues had no overall effect on the conclusions drawn from the data, and the data is acceptable for the purposes of this submittal.

Summary Review

Total arsenic concentrations in groundwater remain greater than the ASWPC though the concentration was reduced by more than half compared to baseline in the EB injection area at AOC12-MW401. The results will be compared to those from the remaining two post-injection sampling events in subsequent data transmittals.

If you have any questions regarding this letter or any other site matter, please do not hesitate to call me at 617-589-6143.

"I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachments may be punishable as a criminal offense."

Sincerely,



Andrew D. Walker, LEP, LSP
Project Manager
CB&I Environmental and Infrastructure, Inc.

Phone: 617-589-6143

E-mail Address: Andrew.Walker@CBI.com

Enclosures:

Tables

Table 1 - Groundwater Analytical Results Compared to ASWPC
Table 2 - Groundwater Analytical Results Compared to Acute WQC

Figure

Figure 1 - Site Plan

Attachments

Attachment 1 – Field Sampling Data Sheets, January 2017
Attachment 2 - Laboratory Analytical Reports for Groundwater with Data Validation Worksheet

cc: Ms. Jessica Stefanowicz, CTDEEP (electronic only)
Mr. Ian Cambridge, Montville Power LLC (hard copy and electronic)
Mr. Robert Spooner, NRG (electronic only)
Mr. Juan Perez, USEPA (electronic only)

REFERENCES

- CB&I, 2016a. Remedial Action Plan for Groundwater, Montville Electric Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. February 25, 2016 (revisions dated June 16, 2016).
- CB&I, 2016b. Site Wide Remedial Action Plan, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. July 19, 2016.
- CB&I, 2017. TA-326 Baseline Monitoring Data Transmittal, Groundwater Injection Pilot Test, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. January 23, 2017.
- CTDEP, 2007. Laboratory Quality Assurance and Quality Control Guidance, Reasonable Confidence Protocols Guidance Document. Connecticut Department of Environmental Protection. November 2007.
- CTDEP, 2009. Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation. Connecticut Department of Environmental Protection. May 2009.
- CTDEEP, 2013. Request for Criteria for Additional Polluting Substances and Alternative Criteria, Montville Station, 74 Lathrop Road, Montville. Connecticut Department of Energy & Environmental Protection. March 13, 2013.
- CTDEEP, 2016a. Groundwater Remedial Action Plan, Montville Station, 74 Lathrop Road, Montville, REM ID 4204. June 30, 2016
- CTDEEP, 2016b. Temporary Authorization TA-326, Montville Power LLC, Montville Station, 74 Lathrop Road, Montville. November 9, 2016
- Shaw, 2011. Quality Assurance Project Plan, NRG Montville Generating Station. Shaw Environmental, Inc. March 2008, Revised August 2011.

TABLES

Table 1
Groundwater Analytical Results Compared to ASWPC
Pilot Test December 2016 - January 2017
Montville Power LLC, Montville, CT

CONSTITUENT	UNITS	SWPC or Alt/Add SWPC (1)	AOC12-MW-401 12/2/2016 Primary	AOC12-MW-401 1/17/2017 Primary	AOC12-MW-402 12/2/2016 Primary	AOC12-MW-402 12/2/2016 Duplicate 1	AOC12-MW-402 1/17/2017 Primary	AOC12-MW-402 1/17/2017 Duplicate 1
Metals (total)								
Arsenic	(ug/l)	10	{98.2}	{41.0}	{24.3}	{25.2}	{35.2}	{34.2}
Iron	(ug/l)	NE	32100	20700	1680	1650	1200	---
Magnesium	(ug/l)	NE	5700	<5000	1360BJ	1340BJ	<5000	---
Vanadium	(ug/l)	4400	25.3BJ	284	0.80BJ	<0.72	<50	---
Metals (dissolved)								
Arsenic	(ug/l)	10	{97.0}	{27.3}	{24.1}	{24.3}	{27.6}	{26.3}
Iron	(ug/l)	NE	33000	20800	1670	1700	505	---
Magnesium	(ug/l)	NE	5870	5640	1370BJ	1370BJ	<5000	---
Vanadium	(ug/l)	4400	16.0BJ	<50	<0.72	0.80BJ	<50	---
Miscellaneous								
Nitrate/Nitrogen	(ug/l)	NE	<110	<110	150	---	<110	---
Nitrite/Nitrogen	(ug/l)	NE	<10	<10	<10	---	<10	---
Nitrogen, Nitrate and Nitrite	(ug/l)	NE	<100	<100	150	---	<100	---
Orthophosphate	(ug/l)	NE	140	<100	<100	---	<100	---
Sulfate	(ug/l)	NE	146000	85400	13800	---	34200	---
Sulfide	(ug/l)	NE	280BJ	<2000	280BJ	---	<2000	---
TOC	(ug/l)	NE	<1000	<1000	<1000	---	<1000	---
Field Parameters								
pH		NE	6.36	6.35	6.47	---	7.26	---
ORP	(mV)	NE	-23.5	-33.7	-4.2	---	-73.1	---
Dissolved Oxygen	(mg/l)	NE	0.8	0.53	1.23	---	0.55	---
Specific Conductivity	(mS/cm)	NE	0.386	0.342	0.073	---	0.177	---
Temperature	(deg.C)	NE	15.3	14.55	14.3	---	12.96	---
Turbidity	(NTU)	NE	0	0.2	0	---	0.8	---

Notes:

SWPC = Surface Water Protection Criteria

--- = Constituent not analyzed for.

NE = None Established.

(1)= Approved Alternative and Additional SWPC in
March 13, 2013 CTDEEP letter

{Red Highlight} = Result is above appropriate SWPC

ug/l = micrograms per liter

mg/l = milligrams per liter

B = Less than detection limit, lab qualifier

J = Less than detection limit, validation qualifier

mV = millivolts

mS/cm = milliseimens per centimeter

deg. C = degrees Celsius

NTU = nephelometric turbidity unit

Lab results have been validated.

Table 2
Groundwater Analytical Results Compared to WQC Acute Fresh and Salt
Pilot Test December 2016 - January 2017
Montville Power LLC, Montville, CT

CONSTITUENT	UNITS	Acute WQC Freshwater	Acute WQC Saltwater	AOC12-MW-401 12/2/2016 Primary	AOC12-MW-401 1/17/2017 Primary	AOC12-MW-402 12/2/2016 Primary	AOC12-MW-402 12/2/2016 Duplicate 1	AOC12-MW-402 1/17/2017 Primary	AOC12-MW-402 1/17/2017 Duplicate 1
Metals (total)									
Arsenic	(ug/l)	340	69	{98.2}	41	24.3	25.2	35.2	34.2
Iron	(ug/l)	NE	NE	32100	20700	1680	1650	1200	---
Magnesium	(ug/l)	NE	NE	5700	<5000	1360BJ	1340BJ	<5000	---
Vanadium	(ug/l)	NE	NE	25.3BJ	284	0.80BJ	<0.72	<50	---
Metals (dissolved)									
Arsenic	(ug/l)	340	69	{97.0}	27.3	24.1	24.3	27.6	26.3
Iron	(ug/l)	NE	NE	33000	20800	1670	1700	505	---
Magnesium	(ug/l)	NE	NE	5870	5640	1370BJ	1370BJ	<5000	---
Vanadium	(ug/l)	NE	NE	16.0BJ	<50	<0.72	0.80BJ	<50	---
Miscellaneous									
Nitrate/Nitrogen	(mg/l)	NE	NE	<0.11	<0.11	0.15	---	<0.11	---
Nitrite/Nitrogen	(ug/l)	NE	NE	<10	<10	<10	---	<10	---
Nitrogen, Nitrate and Nitrite	(ug/l)	NE	NE	<100	<100	150	---	<100	---
Orthophosphate	(ug/l)	NE	NE	140	<100	<100	---	<100	---
Sulfate	(ug/l)	NE	NE	146000	85400	13800	---	34200	---
Sulfide	(ug/l)	NE	NE	280BJ	<2000	280BJ	---	<2000	---
TOC	(ug/l)	NE	NE	<1000	<1000	<1000	---	<1000	---

Notes:

WQC = Numerical Water Quality Criteria for chemical constituents.

ug/l = micrograms per liter.

B = Less than detection limit, lab qualifier

J = Less than detection limit, validation qualifier

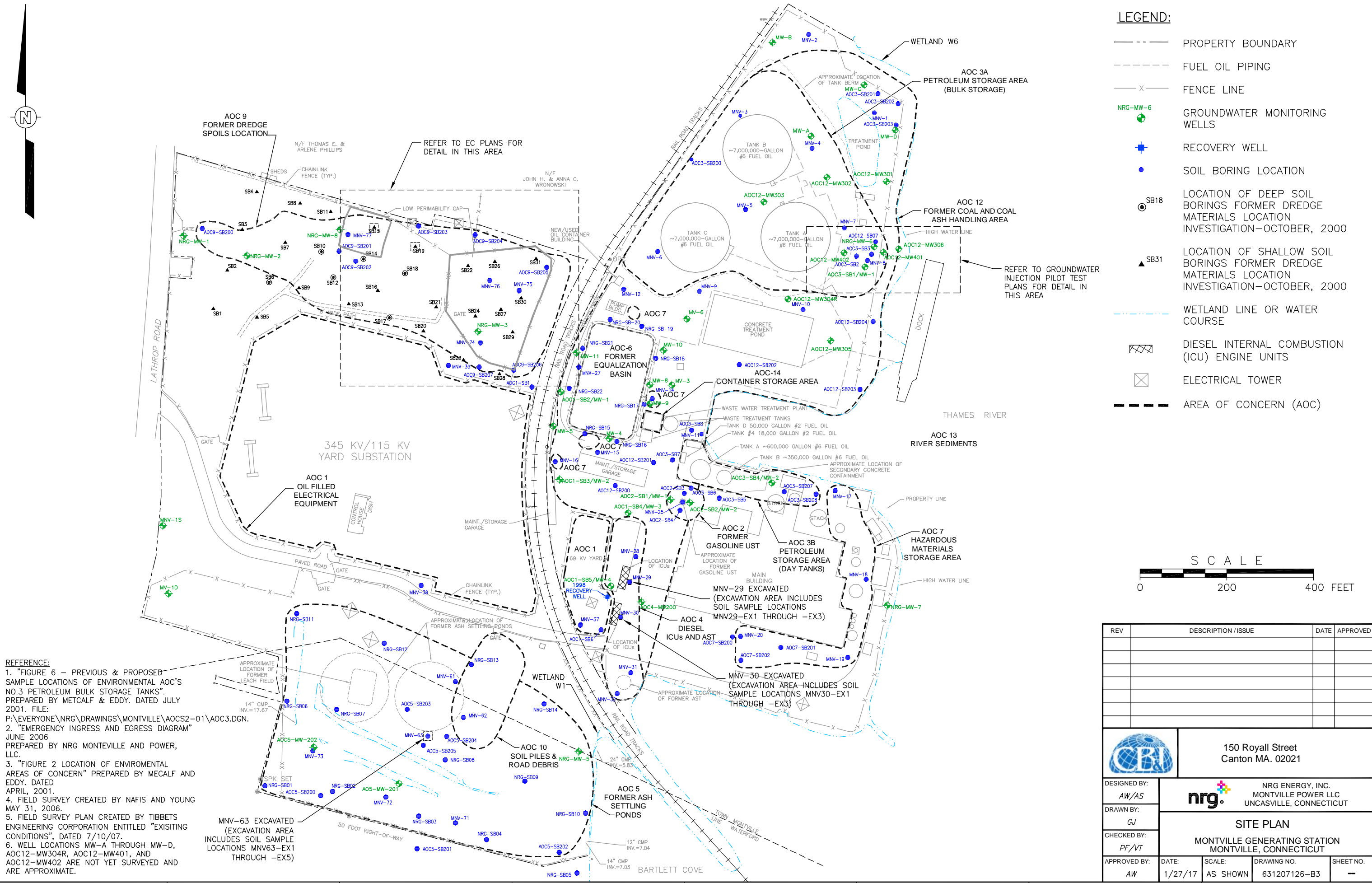
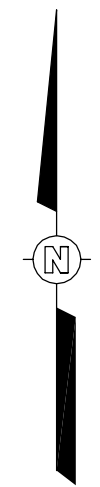
--- = Constituent not analyzed for.

NE = None Established.

{Red Highlight} = Result is above WQC

Lab results have been validated.

FIGURE



REFERENCE:
1. "FIGURE 6 - PREVIOUS & PROPOSED SAMPLE LOCATIONS OF ENVIRONMENTAL AOC'S NO.3 PETROLEUM BULK STORAGE TANKS". PREPARED BY METCALF & EDDY. DATED JULY 2001. FILE: P:\EVERYONE\NRG\DRAWINGS\MONTVILLE\AOC'S-01\AOC3.DGN.
2. "EMERGENCY INGRESS AND EGRESS DIAGRAM" JUNE 2006 PREPARED BY NRG MONTEVILLE AND POWER, LLC.
3. "FIGURE 2 LOCATION OF ENVIROMENTAL AREAS OF CONCERN" PREPARED BY MECALF AND EDDY. DATED APRIL, 2001.
4. FIELD SURVEY CREATED BY NAFIS AND YOUNG MAY 31, 2006.
5. FIELD SURVEY PLAN CREATED BY TIBBETS ENGINEERING CORPORATION ENTITLED "EXISTING CONDITIONS", DATED 7/10/07.
6. WELL LOCATIONS MW-A THROUGH MW-D, AOC12-MW304R, AOC12-MW401, AND AOC12-MW402 ARE NOT YET SURVEYED AND ARE APPROXIMATE.

LEGEND:

- PROPERTY BOUNDARY
- FUEL OIL PIPING
- FENCE LINE
- GROUNDWATER MONITORING WELLS
- RECOVERY WELL
- SOIL BORING LOCATION
- LOCATION OF DEEP SOIL BORINGS FORMER DREDGE MATERIALS LOCATION INVESTIGATION-OCTOBER, 2000
- LOCATION OF SHALLOW SOIL BORINGS FORMER DREDGE MATERIALS LOCATION INVESTIGATION-OCTOBER, 2000
- WETLAND LINE OR WATER COURSE
- DIESEL INTERNAL COMBUSTION (ICU) ENGINE UNITS
- ELECTRICAL TOWER
- AREA OF CONCERN (AOC)



REV	DESCRIPTION / ISSUE	DATE	APPROVED

	150 Royall Street Canton MA. 02021			
	DESIGNED BY: AW/AS	NRG ENERGY, INC. MONTVILLE POWER LLC UNCASVILLE, CONNECTICUT		
	DRAWN BY: GJ			
	CHECKED BY: PF/VT			
APPROVED BY: AW	DATE: 1/27/17	SCALE: AS SHOWN	DRAWING NO. 631207126-B3	SHEET NO. --

ATTACHMENT 1

FIELD SAMPLING DATA SHEETS, JANUARY 2017

Job Name: NRG Montville
Job Number: 631207126-12021320

Measured to Top of PVC: ☒ Yes ☐ No (Circle One)

[illegible]

1. Pump dial setting (example: Hertz, cycles/min, etc.)
2. μ Siemens per cm (same as μ mhos/cm) at 25°C.
3. Oxidation reduction potential (ORP)
4. Target Drawdown not to exceed is 0.3 ft (about 4 inches)

Field Personnel: *A. Magness*

Job Name: NRG Montville
Job Number: 631207126-12021320

Measured to Top of PVC: ☒ Yes ☐ No (Circle One)

[illegible]

1. Pump dial setting (example: Hertz, cycles/min, etc.)
2. μ Siemens per cm (same as μ mhos/cm) at 25°C.
3. Oxidation reduction potential (ORP)
4. Target Drawdown not to exceed is 0.3 ft (about 4 inches)

Field Personnel: A. Magnanti

ATTACHMENT 2

LABORATORY ANALYTICAL REPORT FOR GROUNDWATER WITH DATA VALIDATION WORKSHEET

Data Usability Worksheet

Project Name : NRG Montville

Job Number : 631207126

Prepared By: Cathy Joe Mainville

Date : 2/8/2017

Validated By: Kim Napier

Date : 2/8/2017

Matrix: Groundwater

Analyte Group : Select Metals
Sulfate
Nitrogen, Nitrate + Nitrite
Orthophosphate
Nitrogen Nitrite
Total Organic Carbon
Sulfide

Analytical Method : EPA 200.7
EPA 300/SW846 9056A
EPA 353.2
EPA 365.3
SM 21 4500 NO2 B
SM21 5310 B
SM4500S2-F-11

Completed RCP Certification Form included: Yes

Laboratory ID No. : MC49399

Chain of Custody Included In Data Package ? Yes

Is It Complete ? Yes

Sample Collection Date	Analysis	Allowable Holding Time for	Allowable Holding Time	Analysis Date
1/16/2017, 1/17/2017	SW846 6010C - Metals		180 Days (Mercury 28 Days)	1/19/2017
1/17/2017	EPA 200.7		180 Days (Mercury 28 Days)	1/21/2017, 1/28/2017
1/17/2017	EPA 300/SW846 9056A - Sulfate		28 Days	1/26/2017
1/17/2017	EPA 353.2 - Nitrogen, Nitrate + Nitrite		28 Days	1/24/2017
1/17/2017	EPA 365.3 - Orthophosphate		48 Hours/ Client to filter sample at collection	1/18/2017
1/17/2017	SM 21 4500 NO2 B - Nitrogen Nitrite		48 hours	1/18/2017
1/17/2017	SM21 5310 B - Total Organic Carbon		28 Days	1/20/2017
1/17/2017	SM4500S2-F-11 - Sulfide		7 Days	1/19/2017

Sample temperature within QC limits: Yes, 5.4 and 4.6 °C

Surrogate Recovery

Are all % recoveries within the allowable range ? NA

If No, List sample ID where range was exceeded: N/A

MS/MSD

Are all MS/MSD sample recoveries within the QC limits ? Yes

If No, list sample ID, date and compound where limit was exceeded: N/A

Laboratory Control Samples

Are all laboratory control sample recoveries within the QC limits ? Yes

If no, list sample ID where range was exceeded:

Equipment Field Blank ID : EQUIPMENT BLANK 1/17/2017
EQUIPMENT BLANK 1/17/2017

Trip Blank ID : N/A
Method Blank: 1/20/2017

Were any compounds identified in the method blank, field blank or trip blank above detection limits ? No

If so, list Sample ID/Compound/Concentration/Units:

Notes:

Batch GN55565

MC49399-13 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

MC49399-15 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

EPA 353.2

RPD for duplicate for Nitrogen, Nitrate+Nitrite for sample MC49399-15 above QC limits; no qualification required since sample results non-detect

Batch MP98248

MP98248-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

No qualification necessary since batch QC performed. Not NRG sample

Batch MP98215

MP98215-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Qualify Zn results for AOC12-MW-301 due to serial dilution %D > 10 and sample results > 50X IDL.

Reviewed By: Kim Napier

Report of Analysis

Client Sample ID:	AOC12-MW-301	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-1	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	4.3	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	2.5	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	<10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	63.3	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	<50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	55.1 J	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Technical Report for

CB&I

NRG Montville Lathrop Road, Montville, CT

1009644010 PO#CC

SGS Accutest Job Number: MC49399

Sampling Dates: 01/16/17 - 01/17/17

Report to:

CB&I
150 Royall Street
Canton, MA 02021
andrea.steele@cbi.com

ATTN: Andrea Steele

Total number of pages in report: 77



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

H. Madadian
H. (Brad) Madadian
Lab Director

Client Service contact: Jeremy Vienneau 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) FL (E87579) NY (11791)
NJ (MA926) PA (6801121) ND (R-188) CO (MA00136) MN (11546AA) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

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Sample Summary

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC49399-1	01/16/17	08:20 AM	01/17/17	AQ	Ground Water	AOC12-MW-301
MC49399-2	01/16/17	09:50 AM	01/17/17	AQ	Ground Water	AOC12-MW-302
MC49399-3	01/16/17	11:10 AM	01/17/17	AQ	Ground Water	AOC12-MW-306
MC49399-4	01/16/17	11:15 AM	01/17/17	AQ	Ground Water	AOC12-MW-306-DUP
MC49399-5	01/16/17	14:55 AM	01/17/17	AQ	Ground Water	AOC12-MW-305
MC49399-6	01/16/17	15:50 AM	01/17/17	AQ	Ground Water	AOC12-MW-304R
MC49399-7	01/17/17	08:30 AM	01/17/17	AQ	Ground Water	NRG-MW-11
MC49399-9	01/17/17	11:25 AM	01/17/17	AQ	Ground Water	NRG-MW-07
MC49399-10	01/17/17	12:20 AM	01/17/17	AQ	Ground Water	AOC3-SB4-MW2
MC49399-11	01/17/17	12:45 AM	01/17/17	AQ	Ground Water	AOC3-SB1-MW1
MC49399-12	01/17/17	13:00 AM	01/17/17	AQ	Equipment Blank	EQUIPMENT BLANK
MC49399-13	01/17/17	13:55 AM	01/17/17	AQ	Ground Water	AOC12-MW401
MC49399-13F	01/17/17	13:55 AM	01/17/17	AQ	Groundwater Filtered	AOC12-MW401



Sample Summary
(continued)

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC49399-14	01/17/17	14:00 AM	01/17/17	AQ	Water	EQUIPMENT BLANK
MC49399-15	01/17/17	00:00 AM	01/17/17	AQ	Ground Water	AOC12-MW402
MC49399-15F	01/17/17	00:00 AM	01/17/17	AQ	Groundwater Filtered	AOC12-MW402
MC49399-16	01/17/17	00:00 AM	01/17/17	AQ	Ground Water	AOC12-MW402-DUP
MC49399-16F	01/17/17	00:00 AM	01/17/17	AQ	Groundwater Filtered	AOC12-MW402-DUP

SAMPLE DELIVERY GROUP CASE NARRATIVE

2

Client: CB&I

Job No MC49399

Site: NRG Montville Lathrop Road, Montville, CT

Report Date 1/30/2017 6:47:21 PM

15 Sample(s) were collected on between 01/16/2017 and 01/17/2017 and were received at SGS Accutest New England on 01/17/2017 properly preserved, at 5.4 Deg. C and intact. These Samples received a job number of MC49399. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method EPA 200.7

Matrix: AQ

Batch ID: N:MP98248

- Analysis performed at SGS Accutest, Dayton, NJ.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: N:MP98215

- Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ

Batch ID: N:GP2883

- Sulfate: Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method EPA 353.2

Matrix: AQ

Batch ID: R39473

- MC49399-15 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Matrix: AQ

Batch ID: R39474

- MC49399-13 for Nitrogen, Nitrate: Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

Wet Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ

Batch ID: N:GP2843

- Nitrogen, Nitrate + Nitrite: Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method EPA 365.3

Matrix: AQ

Batch ID: GN55565

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC49399-13DUP, MC49399-13MS were used as the QC samples for Phosphate, Ortho.
- MC49399-13 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.
- MC49399-15 for Phosphate, Ortho: Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

Monday, January 30, 2017

Page 1 of 2

Wet Chemistry By Method SM 21 4500 NO2 B**Matrix:** AQ**Batch ID:** GP21191

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM4500S2- F-11**Matrix:** AQ**Batch ID:** N:GN58251

- Sulfide: Analysis performed at SGS Accutest, Dayton, NJ.

Wet Chemistry By Method SM5310 B-11**Matrix:** AQ**Batch ID:** N:GP2785

- Total Organic Carbon: Analysis performed at SGS Accutest, Dayton, NJ.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC49399).

Monday, January 30, 2017

Page 2 of 2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: SGS Accutest New England

Job No MC49399

Site: FDG: NRG Montville Lathrop Road, Montville, CT

Report Date 1/30/2017 2:32:17 PM

On 01/18/2017, 15 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS Accutest at a maximum corrected temperature of 2.4 C. Samples were intact and chemically preserved, unless noted below. A SGS Accutest Job Number of MC49399 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method EPA 200.7

Matrix: AQ

Batch ID: MP98248

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JC35777-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Iron, Vanadium are outside control limits for sample MP98248-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MC49399-13F for Magnesium: Result confirmed with the un-digested sample.
- MP98248-SD1 for Magnesium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP98215

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC49399-1MS, MC49399-1MSD, MC49399-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Copper, Vanadium, Zinc are outside control limits for sample MP98215-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP98215-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ

Batch ID: GP2883

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method EPA 353.2/LACHAT

Matrix: AQ

Batch ID: GP2843

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC49399-15MS, MC49399-15DUP were used as the QC samples for Nitrogen, Nitrate + Nitrite.
- RPD(s) for Duplicate for Nitrogen, Nitrate + Nitrite are outside control limits for sample GP2843-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method SM4500S2- F-11**Matrix:** AQ**Batch ID:** GN58251

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC49399-13DUP, MC49399-15MS were used as the QC samples for Sulfide.

Wet Chemistry By Method SM5310 B-11**Matrix:** AQ**Batch ID:** GP2785

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS Accutest is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS Accutest indicated via signature on the report cover

Summary of Hits

Job Number: MC49399
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC49399-1 AOC12-MW-301						
Arsenic ^a		4.3	3.0		ug/l	SW846 6010C
Beryllium ^a		2.5	1.0		ug/l	SW846 6010C
Nickel ^a		63.3	10		ug/l	SW846 6010C
Zinc ^a		55.1	20		ug/l	SW846 6010C
MC49399-2 AOC12-MW-302						
Arsenic ^a		6.1	3.0		ug/l	SW846 6010C
Nickel ^a		13.9	10		ug/l	SW846 6010C
Zinc ^a		35.4	20		ug/l	SW846 6010C
MC49399-3 AOC12-MW-306						
Arsenic ^a		160	3.0		ug/l	SW846 6010C
Beryllium ^a		1.1	1.0		ug/l	SW846 6010C
Nickel ^a		29.5	10		ug/l	SW846 6010C
Vanadium ^a		157	50		ug/l	SW846 6010C
Zinc ^a		74.5	20		ug/l	SW846 6010C
MC49399-4 AOC12-MW-306-DUP						
Arsenic ^a		152	3.0		ug/l	SW846 6010C
Beryllium ^a		1.1	1.0		ug/l	SW846 6010C
Nickel ^a		30.3	10		ug/l	SW846 6010C
Vanadium ^a		145	50		ug/l	SW846 6010C
Zinc ^a		76.1	20		ug/l	SW846 6010C
MC49399-5 AOC12-MW-305						
Arsenic ^a		31.5	3.0		ug/l	SW846 6010C
Copper ^a		25.6	10		ug/l	SW846 6010C
Nickel ^a		10.6	10		ug/l	SW846 6010C
Zinc ^a		50.2	20		ug/l	SW846 6010C
MC49399-6 AOC12-MW-304R						
Arsenic ^a		4.4	3.0		ug/l	SW846 6010C
Copper ^a		13.1	10		ug/l	SW846 6010C
Nickel ^a		23.8	10		ug/l	SW846 6010C
Zinc ^a		38.6	20		ug/l	SW846 6010C

Summary of Hits

Job Number: MC49399
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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MC49399-7 NRG-MW-11

Nickel ^a	26.9	10		ug/l	SW846 6010C
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MC49399-9 NRG-MW-07

Arsenic ^a	34.2	3.0		ug/l	SW846 6010C
Zinc ^a	84.4	20		ug/l	SW846 6010C

MC49399-10 AOC3-SB4-MW2

Arsenic ^a	5.1	3.0		ug/l	SW846 6010C
Nickel ^a	22.1	10		ug/l	SW846 6010C
Zinc ^a	69.5	20		ug/l	SW846 6010C

MC49399-11 AOC3-SB1-MW1

Arsenic ^a	11.7	3.0		ug/l	SW846 6010C
Beryllium ^a	2.2	1.0		ug/l	SW846 6010C
Nickel ^a	66.0	10		ug/l	SW846 6010C
Zinc ^a	101	20		ug/l	SW846 6010C

MC49399-12 EQUIPMENT BLANK

No hits reported in this sample.

MC49399-13 AOC12-MW401

Arsenic ^a	41.0	3.0		ug/l	EPA 200.7
Iron ^a	20700	100		ug/l	EPA 200.7
Vanadium ^a	284	50		ug/l	EPA 200.7
Sulfate ^a	85.4	10		mg/l	EPA 300/SW846 9056A

MC49399-13F AOC12-MW401

Arsenic ^a	27.3	3.0		ug/l	EPA 200.7
Iron ^a	20800	100		ug/l	EPA 200.7
Magnesium ^b	5640	5000		ug/l	EPA 200.7

MC49399-14 EQUIPMENT BLANK

No hits reported in this sample.

Summary of Hits

Page 3 of 3

Job Number: MC49399
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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MC49399-15 AOC12-MW402

Arsenic ^a	35.2	3.0		ug/l	EPA 200.7
Iron ^a	1200	100		ug/l	EPA 200.7
Sulfate ^a	34.2	10		mg/l	EPA 300/SW846 9056A

MC49399-15F AOC12-MW402

Arsenic ^a	27.6	3.0		ug/l	EPA 200.7
Iron ^a	505	100		ug/l	EPA 200.7

MC49399-16 AOC12-MW402-DUP

Arsenic ^a	34.2	3.0		ug/l	EPA 200.7
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MC49399-16F AOC12-MW402-DUP

Arsenic ^a	26.3	3.0		ug/l	EPA 200.7
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(a) Analysis performed at SGS Accutest, Dayton, NJ.

(b) Result confirmed with the un-digested sample. Analysis performed at SGS Accutest, Dayton, NJ.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AOC12-MW-301	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-1	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	4.3	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	2.5	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	63.3	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	55.1	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID: AOC12-MW-302**Lab Sample ID:** MC49399-2**Matrix:** AQ - Ground Water**Date Sampled:** 01/16/17**Date Received:** 01/17/17**Percent Solids:** n/a**Project:** NRG Montville Lathrop Road, Montville, CT**Total Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	6.1	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	13.9	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	35.4	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW-306	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-3	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	160	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	1.1	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	29.5	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	157	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	74.5	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW-306-DUP	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-4	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	152	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	1.1	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	30.3	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	145	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	76.1	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID: AOC12-MW-305**Lab Sample ID:** MC49399-5**Matrix:** AQ - Ground Water**Date Sampled:** 01/16/17**Date Received:** 01/17/17**Percent Solids:** n/a**Project:** NRG Montville Lathrop Road, Montville, CT**Total Metals Analysis**

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	31.5	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	25.6	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	10.6	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	50.2	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW-304R	Date Sampled:	01/16/17
Lab Sample ID:	MC49399-6	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	4.4	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	13.1	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	23.8	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	38.6	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NRG-MW-11	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-7	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	< 3.0	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	26.9	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	< 20	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NRG-MW-07	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-9	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	34.2	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	84.4	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC3-SB4-MW2	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-10	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	5.1	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	22.1	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	69.5	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC3-SB1-MW1	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-11	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	11.7	3.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	2.2	1.0	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	66.0	10	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	101	20	ug/l	1	01/19/17	01/19/17 ANJ	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: N:MA41194

(2) Prep QC Batch: N:MP98215

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-12	Date Received:	01/17/17
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic ^a	< 3.0	3.0	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Beryllium ^a	< 1.0	1.0	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Copper ^a	< 10	10	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Nickel ^a	< 10	10	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Vanadium ^a	< 50	50	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²
Zinc ^a	< 20	20	ug/l	1	01/19/17	01/19/17	ANJ	SW846 6010C ¹	SW846 3010A ²

- (1) Instrument QC Batch: N:MA41194
(2) Prep QC Batch: N:MP98215
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW401	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-13	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic ^a	41.0	3.0	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Iron ^a	20700	100	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Magnesium ^a	< 5000	5000	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Vanadium ^a	284	50	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²

- (1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.12
4

Report of Analysis

Client Sample ID: AOC12-MW401	Date Sampled: 01/17/17
Lab Sample ID: MC49399-13	Date Received: 01/17/17
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: NRG Montville Lathrop Road, Montville, CT	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate ^a	< 0.11	0.11	mg/l	1	01/24/17 15:03	ANJ	EPA 353.2
Nitrogen, Nitrate + Nitrite ^b	< 0.10	0.10	mg/l	1	01/24/17 15:03	ANJ	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	01/18/17 09:55	EAL	SM 21 4500 NO2 B
Phosphate, Ortho ^c	< 0.10	0.10	mg/l	1	01/18/17 11:15	EAL	EPA 365.3
Sulfate ^b	85.4	10	mg/l	1	01/26/17 01:43	ANJ	EPA 300/SW846 9056A
Sulfide ^b	< 2.0	2.0	mg/l	1	01/19/17 16:26	ANJ	SM4500S2- F-11
Total Organic Carbon ^b	< 1.0	1.0	mg/l	1	01/20/17 16:12	ANJ	SM5310 B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis performed at SGS Accutest, Dayton, NJ.

(c) Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW401	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-13F	Date Received:	01/17/17
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	27.3	3.0	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Iron ^a	20800	100	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Magnesium ^b	5640	5000	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Vanadium ^a	< 50	50	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: N:MA41211

(2) Prep QC Batch: N:MP98248

(a) Analysis performed at SGS Accutest, Dayton, NJ.

(b) Result confirmed with the un-digested sample. Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.13
4

Report of Analysis

Client Sample ID:	EQUIPMENT BLANK	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-14	Date Received:	01/17/17
Matrix:	AQ - Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By		Method	Prep Method
Arsenic ^a	< 3.0	3.0	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Iron ^a	< 100	100	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Magnesium ^a	< 5000	5000	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²
Vanadium ^a	< 50	50	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ²

- (1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.14
4

Report of Analysis

Client Sample ID:	AOC12-MW402	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-15	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic ^a	35.2	3.0	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ³
Iron ^a	1200	100	ug/l	1	01/20/17	01/28/17	ANJ	EPA 200.7 ²	EPA 200.7 ³
Magnesium ^a	< 5000	5000	ug/l	1	01/20/17	01/28/17	ANJ	EPA 200.7 ²	EPA 200.7 ³
Vanadium ^a	< 50	50	ug/l	1	01/20/17	01/21/17	ANJ	EPA 200.7 ¹	EPA 200.7 ³

- (1) Instrument QC Batch: N:MA41211
- (2) Instrument QC Batch: N:MA41249
- (3) Prep QC Batch: N:MP98248

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.15
4

Report of Analysis

Client Sample ID:	AOC12-MW402	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-15	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate ^a	< 0.11	0.11	mg/l	1	01/24/17 15:07	ANJ	EPA 353.2
Nitrogen, Nitrate + Nitrite ^b	< 0.10	0.10	mg/l	1	01/24/17 15:07	ANJ	EPA 353.2/LACHAT
Nitrogen, Nitrite	< 0.010	0.010	mg/l	1	01/18/17 09:55	EAL	SM 21 4500 NO2 B
Phosphate, Ortho ^c	< 0.10	0.10	mg/l	1	01/18/17 11:15	EAL	EPA 365.3
Sulfate ^b	34.2	10	mg/l	1	01/26/17 02:55	ANJ	EPA 300/SW846 9056A
Sulfide ^b	< 2.0	2.0	mg/l	1	01/19/17 16:26	ANJ	SM4500S2- F-11
Total Organic Carbon ^b	< 1.0	1.0	mg/l	1	01/20/17 16:23	ANJ	SM5310 B-11

(a) Calculated as: (Nitrogen, Nitrate + Nitrite) - (Nitrogen, Nitrite)

(b) Analysis performed at SGS Accutest, Dayton, NJ.

(c) Filtration performed at the lab prior to analysis. Method requires field filtration within 15 minutes of sampling.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW402	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-15F	Date Received:	01/17/17
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	27.6	3.0	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Iron ^a	505	100	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Magnesium ^a	< 5000	5000	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²
Vanadium ^a	< 50	50	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²

- (1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248
- (a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.16
4

Report of Analysis

Client Sample ID:	AOC12-MW402-DUP	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-16	Date Received:	01/17/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	34.2	3.0	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.17
4

Report of Analysis

Client Sample ID:	AOC12-MW402-DUP	Date Sampled:	01/17/17
Lab Sample ID:	MC49399-16F	Date Received:	01/17/17
Matrix:	AQ - Groundwater Filtered	Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	26.3	3.0	ug/l	1	01/20/17	01/21/17 ANJ	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: N:MA41211
(2) Prep QC Batch: N:MP98248

(a) Analysis performed at SGS Accutest, Dayton, NJ.

RL = Reporting Limit

4.18
4

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- RCP Form (SGS Accutest New Jersey)
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

[illegible]

5.1

MC49399: Chain of Custody

Page 1 of 3

[illegible]

MC49399: Chain of Custody

Page 2 of 3

SGS Accutest NE Sample Receipt Summary

Job Number: MC49399

Client: CB&I ENVIRONMENTAL

Project: NRG MONTVILLE

Date / Time Received: 1/17/2017 4:45:00 PM

Delivery Method: CLEINT

Airbill #'s:

Cooler Temps (Initial/Adjusted): #1: (5.4/5.4); #2: (4.6/4.6);

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Comments

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

MC49399: Chain of Custody

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Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England

Client: CB&I

Project Location: NRG Montville Lathrop Road, Montville, CT

Project Number: 1009644010 PO#

Sampling Date(s): 1/16/2017

Laboratory Sample ID(s): MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12, MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Methods: Refer to case narrative.

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1A	Where all the method specified preservation and holding time requirements met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3	Were samples received at an appropriate temperature (<6° C)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	b) Were these reporting limits met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized

Signature: 

Position: Lab Director

Printed Name: H. (Brad) Madadian
Accutest New England

Date: 1/30/2017

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Accutest New England Client: SGS Accutest New England

Project Location: FDG: NRG Montville Lathrop Road, Montville, CT Project Number: FDG18607

Sampling Date(s): 1/16/2017

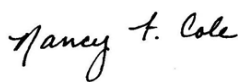
Laboratory Sample ID(s): MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-1, MC49399-2, MC49399-9, MC49399-10, MC49399-11, MC49399-12, MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Methods: EPA 200.7, EPA 300/SW846 9056A, EPA 353.2/LACHAT, SM4500S2- F-11, S1

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1A	Where all the method specified preservation and holding time requirements met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1B	VPH and EPH methods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
3	Were samples received at an appropriate temperature (<6° C)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	b) Were these reporting limits met?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  Position: Lab Director

Printed Name: Nancy Cole Date: 1/31/2017

Mid-Atlantic Laboratory

Internal Sample Tracking Chronicle

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
 Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-1 Collected: 16-JAN-17 08:20 By: AM Received: 17-JAN-17 By: BA AOC12-MW-301						
MC49399-1	SW846 6010C	19-JAN-17 18:50	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-2 Collected: 16-JAN-17 09:50 By: AM Received: 17-JAN-17 By: BA AOC12-MW-302						
MC49399-2	SW846 6010C	19-JAN-17 18:56	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-3 Collected: 16-JAN-17 11:10 By: AM Received: 17-JAN-17 By: BA AOC12-MW-306						
MC49399-3	SW846 6010C	19-JAN-17 18:58	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-4 Collected: 16-JAN-17 11:15 By: AM Received: 17-JAN-17 By: BA AOC12-MW-306-DUP						
MC49399-4	SW846 6010C	19-JAN-17 19:07	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-5 Collected: 16-JAN-17 14:55 By: AM Received: 17-JAN-17 By: BA AOC12-MW-305						
MC49399-5	SW846 6010C	19-JAN-17 19:10	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-6 Collected: 16-JAN-17 15:50 By: AM Received: 17-JAN-17 By: BA AOC12-MW-304R						
MC49399-6	SW846 6010C	19-JAN-17 19:12	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-7 Collected: 17-JAN-17 08:30 By: AM Received: 17-JAN-17 By: BA NRG-MW-11						
MC49399-7	SW846 6010C	19-JAN-17 19:15	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-9 Collected: 17-JAN-17 11:25 By: AM Received: 17-JAN-17 By: BA NRG-MW-07						
MC49399-9	SW846 6010C	19-JAN-17 19:18	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN

Internal Sample Tracking Chronicle

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-10 Collected: 17-JAN-17 12:20 By: AM Received: 17-JAN-17 By: BA AOC3-SB4-MW2						
MC49399-10	SW846 6010C	19-JAN-17 19:21	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-11 Collected: 17-JAN-17 12:45 By: AM Received: 17-JAN-17 By: BA AOC3-SB1-MW1						
MC49399-11	SW846 6010C	19-JAN-17 19:24	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-12 Collected: 17-JAN-17 13:00 By: AM Received: 17-JAN-17 By: BA EQUIPMENT BLANK						
MC49399-12	SW846 6010C	19-JAN-17 19:27	ANJ	19-JAN-17	ANJ	AS,BE,CU,NI,V,ZN
MC49399-13 Collected: 17-JAN-17 13:55 By: AM Received: 17-JAN-17 By: BA AOC12-MW401						
MC49399-13	SM 21 4500 NO2 B	18-JAN-17 09:55	EAL	18-JAN-17	EAL	NO2
MC49399-13	EPA 365.3	18-JAN-17 11:15	EAL			OPO4
MC49399-13	M4500S2- F-11	19-JAN-17 16:26	ANJ			S
MC49399-13	M5310 B-11	20-JAN-17 16:12	ANJ	20-JAN-17	ANJ	TOC
MC49399-13	EPA 200.7	21-JAN-17 14:42	ANJ	20-JAN-17	ANJ	AS,FE,MG,V
MC49399-13	EPA 353.2	24-JAN-17 15:03	ANJ			NO3O
MC49399-13	EPA 353.2/LACHAT	24-JAN-17 15:03	ANJ	24-JAN-17	ANJ	NO32
MC49399-13	EPA 300/SW846 9056A26	26-JAN-17 01:43	ANJ	25-JAN-17		SO4
MC49399-14 Collected: 17-JAN-17 14:00 By: AM Received: 17-JAN-17 By: BA EQUIPMENT BLANK						
MC49399-14	EPA 200.7	21-JAN-17 14:55	ANJ	20-JAN-17	ANJ	AS,FE,MG,V
MC49399-15 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: BA AOC12-MW402						
MC49399-15	SM 21 4500 NO2 B	18-JAN-17 09:55	EAL	18-JAN-17	EAL	NO2
MC49399-15	EPA 365.3	18-JAN-17 11:15	EAL			OPO4
MC49399-15	M4500S2- F-11	19-JAN-17 16:26	ANJ			S
MC49399-15	M5310 B-11	20-JAN-17 16:23	ANJ	20-JAN-17	ANJ	TOC

Internal Sample Tracking Chronicle

CB&I

Job No: MC49399

NRG Montville Lathrop Road, Montville, CT
 Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-15	EPA 200.7	21-JAN-17 14:58	ANJ	20-JAN-17	ANJ	AS,V
MC49399-15	EPA 353.2	24-JAN-17 15:07	ANJ			NO3O
MC49399-15	EPA 353.2/LACHAT	24-JAN-17 15:07	ANJ	24-JAN-17	ANJ	NO32
MC49399-15	EPA 300/SW846 9056A	26-JAN-17 02:55	ANJ	25-JAN-17		SO4
MC49399-15	EPA 200.7	28-JAN-17 00:43	ANJ	20-JAN-17	ANJ	FE,MG
MC49399-16 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: BA AOC12-MW402-DUP						
MC49399-16	EPA 200.7	21-JAN-17 15:01	ANJ	20-JAN-17	ANJ	AS
MC49399-13 Collected: 17-JAN-17 13:55 By: AM Received: 17-JAN-17 By: BA AOC12-MW401						
MC49399-13	EPA 200.7	21-JAN-17 15:04	ANJ	20-JAN-17	ANJ	AS,FE,MG,V
MC49399-15 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: BA AOC12-MW402						
MC49399-15	EPA 200.7	21-JAN-17 15:07	ANJ	20-JAN-17	ANJ	AS,FE,MG,V
MC49399-16 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: BA AOC12-MW402-DUP						
MC49399-16	EPA 200.7	21-JAN-17 15:10	ANJ	20-JAN-17	ANJ	AS

QC Evaluation: CT RCP Limits

Job Number: MC49399
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
--------------	------	---------	-------------	-------------	--------	-------	--------

No Exceptions found.

* Sample used for QC is not from job MC49399

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Nitrogen, Nitrite	GP21191/GN55564	0.010	0.0029	mg/l	.020	0.021	105.0	80-120%
Phosphate, Ortho	GN55565	0.10	0.0	mg/l	.2	0.20	100.0	80-120%

Associated Samples:

Batch GN55565: MC49399-13, MC49399-15

Batch GP21191: MC49399-13, MC49399-15

(*) Outside of QC limits

6.1

6

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Phosphate, Ortho	GN55565	MC49399-13	mg/l	0.034	0.032	6.1	0-20%

Associated Samples:

Batch GN55565: MC49399-13, MC49399-15

(*) Outside of QC limits

6.2

6

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Phosphate, Ortho	GN55565	MC49399-13	mg/l	0.034	.2	0.24	103.0	75-125%

Associated Samples:

Batch GN55565: MC49399-13, MC49399-15

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

6.3

6

Misc. Forms

Custody Documents and Other Forms

(SGS Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL. 508-481-6200 FAX. 508-481-7753
www.sgs.com

FED-EX Tracking # 1068 5600 9775	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest Job MC49399

Client / Reporting Information				Project Name				Requested Analysis (see TEST CODE sheet)												Matrix Codes								
Company Name: SGS Accutest				Project Name: NRG Montville Lathrop Road, Montville, CT				<div style="display: flex; justify-content: space-between;"> <div>AS</div> <div>AS BE CU NI V ZN</div> <div>AS FE MG NO32 S S04 TOC V</div> <div>AS FE MG V</div> <div>ASMS BEAMS CUMS MIMS MMS ZNMS</div> </div>													DW - Drinking Water GW - Ground Water WW - Wastewater SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank TB-Trip Blank							
Street Address: 50 D'Angelo Drive, 495 Technology Center West, BLDG One				Street		Billing Information (If different from Report to)																						
City: Marlborough, MA		State: 0175		City		State															Company Name							
Project Contact: Donald.McDowell@sgs.com		E-mail		Project #		Street Address																						
Phone # 508-481-6200		Fax #		Client Purchase Order #		City															State		Zip					
Sampler(s) Name(s): AM				Phone		Project Manager		Attention:																				
SGS Accutest Sample #		Field ID / Point of Collection		MECH/DI Vial #		Collection		Date		Time		Sampled by		Matrix		# of bottles		Number of preserved Bottles										LAB USE ONLY
1		AOC12-MW-301				1/16/17		8:20:00 AM		AM		AQ		1		1												R35
2		AOC12-MW-302				1/16/17		9:50:00 AM		AM		AQ		1		1												G25
3		AOC12-MW-306				1/16/17		11:10:00 AM		AM		AQ		1		1												19C1
4		AOC12-MW-306-DUP				1/16/17		11:15:00 AM		AM		AQ		1		1												
5		AOC12-MW-305				1/16/17		2:55:00 PM		AM		AQ		1		1												
6		AOC12-MW-304R				1/16/17		3:50:00 PM		AM		AQ		1		1												
7		NRG-MW-11				1/17/17		8:30:00 AM		AM		AQ		1		1												
8		NRG-MW-05				1/17/17		10:00:00 AM		AM		AQ		1		1												
9		NRG-MW-07				1/17/17		11:25:00 AM		AM		AQ		1		1												
10		AOC3-SB4-MW2				1/17/17		12:20:00 PM		AM		AQ		1		1												
11		AOC3-SB1-MW1				1/17/17		12:45:00 PM		AM		AQ		1		1												
12		EQUIPMENT BLANK				1/17/17		1:00:00 PM		AM		AQ		1		1												
Turnaround Time (Business days)				Data Deliverable Information																		Comments / Special Instructions						
<input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY <input checked="" type="checkbox"/> Other Due 1/31/2017 Emergency & Rush TIA data available VIA Lablink				Approved By (SGS Accutest PM) / Date: _____ _____ _____ _____ _____				<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data														<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input checked="" type="checkbox"/> Other CTRCP				INITIAL ASSESSMENT <i>3/1/02</i> LABEL VERIFICATION <i>1/1/02</i>		
Sample Custody must be documented below each time samples change possession, including courier delivery.																												
Reinquired by Sampler: <i>Way</i>		Date/Ti: <i>1/17-17</i>		Received By: <i>FDX</i>		Reinquired By: <i>FDX</i>		Date Time: <i>1/18/17</i>		Received By: <i>f f A</i>																		
Reinquired by Sampler:		Date Time:		Received By:		Reinquired By:		Date Time: <i>920</i>		Received By:																		
Reinquired by:		Date Time:		Received By:		Custody Seal # <i>48</i>		Intact <input checked="" type="checkbox"/> Not intact <input type="checkbox"/>		Preserved where applicable <input checked="" type="checkbox"/>		On Ice <input checked="" type="checkbox"/> Cooler Temp. <i>1.0</i>																

MC49399: Chain of Custody

Page 1 of 4

SGS Accutest New Jersey

50 D'Angelo Drive, 495 Technology Center West, Bldg One, Marlborough, MA 01752
TEL: 508-481-6200 FAX: 508-481-7753
www.sgs.com

FED-EX Tracking # 7068 8600 9778
SGS Accutest Quote #

Bottle Order Control #	
------------------------	--

SGS Accutest Job

MC49399

[illegible]

MC49399: Chain of Custody

Page 2 of 4

SGS Accutest Sample Receipt Summary

Job Number: MC49399

Client: _____

Project: _____

Date / Time Received: 1/18/2017 9:20:00 AM

Delivery Method: _____

Airbill #s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (1.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.4);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | IR Gun | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

SM089-02
Rev. Date 12/1/16

MC49399: Chain of Custody

Page 3 of 4

Job Change Order: MC49399

Requested Date: 1/20/2017 Received Date: 1/17/2017
Account Name: CB&I Due Date: 1/31/2017
Project Description: NRG Montville Lathrop Road, Montville, CT Deliverable: CTRCP
CSR: jeremyv TAT (Days): 14

Sample #: MC49399-5 Change:

Dept:

TAT:

AOC12-MW-305

Sample #: MC49399-8 Change:

Dept: Move sample to A job and report metals to MDL

TAT: 14

NRG-MW-05

Above Changes Per:

Date/Time: 1/20/2017 9:19:24 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

Page 1 of 1

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC49399

FDG: NRG Montville Lathrop Road, Montville, CT

Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-1 Collected: 16-JAN-17 08:20 By: AM Received: 17-JAN-17 By: AL AOC12-MW-301						
MC49399-1	SW846 6010C	19-JAN-17 18:50	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-2 Collected: 16-JAN-17 09:50 By: AM Received: 17-JAN-17 By: AL AOC12-MW-302						
MC49399-2	SW846 6010C	19-JAN-17 18:56	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-3 Collected: 16-JAN-17 11:10 By: AM Received: 17-JAN-17 By: AL AOC12-MW-306						
MC49399-3	SW846 6010C	19-JAN-17 18:58	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-4 Collected: 16-JAN-17 11:15 By: AM Received: 17-JAN-17 By: AL AOC12-MW-306-DUP						
MC49399-4	SW846 6010C	19-JAN-17 19:07	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-5 Collected: 16-JAN-17 14:55 By: AM Received: 17-JAN-17 By: AL AOC12-MW-305						
MC49399-5	SW846 6010C	19-JAN-17 19:10	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-6 Collected: 16-JAN-17 15:50 By: AM Received: 17-JAN-17 By: AL AOC12-MW-304R						
MC49399-6	SW846 6010C	19-JAN-17 19:12	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-7 Collected: 17-JAN-17 08:30 By: AM Received: 17-JAN-17 By: AL NRG-MW-11						
MC49399-7	SW846 6010C	19-JAN-17 19:15	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-9 Collected: 17-JAN-17 11:25 By: AM Received: 17-JAN-17 By: AL NRG-MW-07						
MC49399-9	SW846 6010C	19-JAN-17 19:18	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC49399

FDG: NRG Montville Lathrop Road, Montville, CT

Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-10 Collected: 17-JAN-17 12:20 By: AM Received: 17-JAN-17 By: AL AOC3-SB4-MW2						
MC49399-10	SW846 6010C	19-JAN-17 19:21	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-11 Collected: 17-JAN-17 12:45 By: AM Received: 17-JAN-17 By: AL AOC3-SB1-MW1						
MC49399-11	SW846 6010C	19-JAN-17 19:24	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-12 Collected: 17-JAN-17 13:00 By: AM Received: 17-JAN-17 By: AL EQUIPMENT BLANK						
MC49399-12	SW846 6010C	19-JAN-17 19:27	GT	19-JAN-17	CSF	AS,BE,CU,NI,V,ZN
MC49399-13 Collected: 17-JAN-17 13:55 By: AM Received: 17-JAN-17 By: AL AOC12-MW401						
MC49399-13	SM4500S2- F-11	19-JAN-17 16:26	JA			S
MC49399-13	M5310 B-11	20-JAN-17 16:12	CD	20-JAN-17	CD	TOC
MC49399-13	EPA 200.7	21-JAN-17 14:42	DE	20-JAN-17	DP	AS,FE,MG,V
MC49399-13	EPA 353.2/LACHAT	24-JAN-17 15:03	BM	24-JAN-17	BM	NO32
MC49399-13	EPA 300/SW846 9056A26	26-JAN-17 01:43	TG	25-JAN-17	TG	SO4
MC49399-14 Collected: 17-JAN-17 14:00 By: AM Received: 17-JAN-17 By: AL EQUIPMENT BLANK						
MC49399-14	EPA 200.7	21-JAN-17 14:55	DE	20-JAN-17	DP	AS,FE,MG,V
MC49399-15 Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: AL AOC12-MW402						
MC49399-15	SM4500S2- F-11	19-JAN-17 16:26	JA			S
MC49399-15	M5310 B-11	20-JAN-17 16:23	CD	20-JAN-17	CD	TOC
MC49399-15	EPA 200.7	21-JAN-17 14:58	DE	20-JAN-17	DP	AS,V
MC49399-15	EPA 353.2/LACHAT	24-JAN-17 15:07	BM	24-JAN-17	BM	NO32
MC49399-15	EPA 300/SW846 9056A26	26-JAN-17 02:55	TG	25-JAN-17	TG	SO4
MC49399-15	EPA 200.7	28-JAN-17 00:43	DE	20-JAN-17	DP	FE,MG

Internal Sample Tracking Chronicle

SGS Accutest New England

Job No: MC49399

FDG: NRG Montville Lathrop Road, Montville, CT
Project No: 1009644010 PO#CC

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC49399-16Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: AL AOC12-MW402-DUP						
MC49399-16	EPA 200.7	21-JAN-17 15:01	DE	20-JAN-17	DP	AS
MC49399-13Collected: 17-JAN-17 13:55 By: AM Received: 17-JAN-17 By: AL AOC12-MW401						
MC49399-13	EPA 200.7	21-JAN-17 15:04	DE	20-JAN-17	DP	AS,FE,MG,V
MC49399-15Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: AL AOC12-MW402						
MC49399-15	EPA 200.7	21-JAN-17 15:07	DE	20-JAN-17	DP	AS,FE,MG,V
MC49399-16Collected: 17-JAN-17 00:00 By: AM Received: 17-JAN-17 By: AL AOC12-MW402-DUP						
MC49399-16	EPA 200.7	21-JAN-17 15:10	DE	20-JAN-17	DP	AS

7.2
7

QC Evaluation: CT RCP Limits

Job Number: MC49399
Account: SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT
Collected: 01/16/17 thru 01/17/17

QC Sample ID	CAS#	Analyte	Sample Result Type	Result Type	Units	Limits
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No Exceptions found.

* Sample used for QC is not from job MC49399

Metals Analysis

QC Data Summaries

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/19/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	7	21		
Antimony	6.0	2	3.3		
Arsenic	3.0	2	2.2	0.20	<3.0
Barium	200	.3	.44		
Beryllium	1.0	.1	.25	-0.10	<1.0
Bismuth	20	2.4	2.9		
Boron	100	1.5	3.9		
Cadmium	3.0	.3	.4		
Calcium	5000	120	33		
Chromium	10	.4	.81		
Cobalt	50	.3	.69		
Copper	10	.9	2.4	-0.60	<10
Iron	100	2.2	12		
Lead	3.0	1.5	2.3		
Lithium	20	1.5	4		
Magnesium	5000	22	85		
Manganese	15	.1	.39		
Molybdenum	20	.5	.88		
Nickel	10	.4	.76	0.0	<10
Palladium	50	1.2	3.7		
Phosphorus	50		3.7		
Potassium	10000	37	120		
Selenium	10	3.4	4.1		
Silicon	200	2.1	29		
Silver	10	.3	.88		
Sodium	10000	22	24		
Sulfur	50	8.4	6.9		
Strontium	10	.2	.22		
Thallium	2.0	1.8	1.9		
Tin	10	1.1	2.3		
Titanium	10	.4	.99		
Tungsten	50	1.6	3.2		
Vanadium	50	.3	.66	-0.10	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 01/19/17

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	.3	1.3	0.50	<20
Zirconium	10	.2	.94		

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.1.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original MS		Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	4.3	1900	2000	94.8	75-125
Barium					
Beryllium	2.5	2090	2000	104.4	75-125
Bismuth					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper	5.9	2040	2000	101.7	75-125
Iron	anr				
Lead					
Lithium					
Magnesium	anr				
Manganese					
Molybdenum					
Nickel	63.3	2070	2000	100.3	75-125
Palladium					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium	2.9	2010	2000	100.4	75-125
Zinc	55.1	2040	2000	99.2	75-125

8.1.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original MS	SpikeLot MPSPK2	% Rec	QC Limits
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Zirconium

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.1.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original	MSD	Spikelet MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	4.3	1890	2000	94.3	0.5	20
Barium						
Beryllium	2.5	2050	2000	102.4	1.9	20
Bismuth						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	5.9	2020	2000	100.7	1.0	20
Iron	anr					
Lead						
Lithium						
Magnesium	anr					
Manganese						
Molybdenum						
Nickel	63.3	2040	2000	98.8	1.5	20
Palladium						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium	2.9	1990	2000	99.4	1.0	20
Zinc	55.1	2010	2000	97.7	1.5	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
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Zirconium

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.1.2

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC49399

Account: ALNE - SGS Accutest New England

Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

01/19/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1860	2000	93.0	80-120
Barium				
Beryllium	2060	2000	103.0	80-120
Bismuth				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	1990	2000	99.5	80-120
Iron	anr			
Lead				
Lithium				
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	1970	2000	98.5	80-120
Palladium				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	1960	2000	98.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
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Zinc 1960 2000 98.0 80-120

Zirconium

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.1.3
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	4.30	0.00	100.0 (a)	0-10
Barium				
Beryllium	2.50	1.80	28.0 (a)	0-10
Bismuth				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	5.90	0.00	100.0 (a)	0-10
Iron	anr			
Lead				
Lithium				
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	63.3	61.4	3.0	0-10
Palladium				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium	2.90	4.30	48.3 (a)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98215
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 01/19/17

Metal	MC49399-1		QC	
	Original	SDL 1:5	%DIF	Limits

Zinc 55.1 65.9 19.6*(b) 0-10

Zirconium

Associated samples MP98215: MC49399-1, MC49399-2, MC49399-3, MC49399-4, MC49399-5, MC49399-6, MC49399-7, MC49399-9, MC49399-10, MC49399-11, MC49399-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/20/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	22		
Antimony	6.0	2.7	3.1		
Arsenic	3.0	1.4	2.8	1.0	<3.0
Barium	200	.5	.54		
Beryllium	1.0	.1	.31		
Bismuth	20	3.6	2.8		
Boron	100	4.6	2.4		
Cadmium	3.0	.4	.43		
Calcium	5000	45	14		
Chromium	10	.5	1.1		
Cobalt	50	.4	.41		
Copper	10	.5	2.6		
Iron	100	2.8	18	-0.10	<100
Lead	3.0	1.2	2.5		
Lithium	20	3.7	3.5		
Magnesium	5000	21	90	22.1	<5000
Manganese	15	.1	.48		
Molybdenum	20	.4	1.4		
Nickel	10	.6	.64		
Palladium	50	3	2.8		
Phosphorus	50		2.8		
Potassium	10000	84	99		
Selenium	10	3.2	3.6		
Silicon	200	2.3	15		
Silver	10	1	.97		
Sodium	10000	38	25		
Sulfur	50	4.1	6.9		
Strontium	10	.1	.22		
Thallium	2.0	1.8	1.8		
Tin	10	1.1	1.6		
Titanium	10	.5	1.4		
Tungsten	50	1.9	2.1		
Vanadium	50	.4	.72	0.0	<50

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/20/17

Metal	RL	IDL	MDL	MB raw	final
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Zinc 20 1.8 1.2

Zirconium 10 .4 1

Associated samples MP98248: MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.2.1

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC49399

Account: ALNE - SGS Accutest New England

Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248

Methods: EPA 200.7

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

01/20/17

01/20/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot AGSPIKE	% Rec	QC Limits
Aluminum								
Antimony	anr							
Arsenic	2060	2000	103.0	85-115				
Barium	anr							
Beryllium	anr							
Bismuth								
Boron								
Cadmium	anr							
Calcium								
Chromium	anr							
Cobalt								
Copper	anr							
Iron	27300	25000	109.2	85-115				
Lead	anr							
Lithium								
Magnesium	27400	25000	109.6	85-115				
Manganese	anr							
Molybdenum								
Nickel	anr							
Palladium								
Phosphorus								
Potassium								
Selenium	anr							
Silicon								
Silver	anr							
Sodium								
Sulfur								
Strontium								
Thallium	anr							
Tin								
Titanium								
Tungsten								
Vanadium	2070	2000	103.5	85-115				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/20/17 01/20/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits	BSP Result	Spikelot AGSPIKE	% Rec	QC Limits
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Zinc anr

Zirconium

Associated samples MP98248: MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.2.2

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/20/17

Metal	JC35777-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	anr			
Arsenic	3.30	0.00	100.0 (a)	0-10
Barium	anr			
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	79.4	53.6	32.5 (a)	0-10
Lead	anr			
Lithium				
Magnesium	36100	32000	11.2* (b)	0-10
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Phosphorus				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				
Vanadium	1.60	2.90	81.3 (a)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC49399
 Account: ALNE - SGS Accutest New England
 Project: FDG: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP98248
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/20/17

Metal	JC35777-1 Original SDL 1:5	%DIF	QC Limits
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Zinc anr

Zirconium

Associated samples MP98248: MC49399-13, MC49399-14, MC49399-15, MC49399-16, MC49399-13F, MC49399-15F, MC49399-16F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

8.2.3

8

General Chemistry

QC Data Summaries

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP2883/GN58481	2.0	0.0	mg/l	80	80.6	100.8	90-110%
Nitrogen, Nitrate + Nitrite	GP2843/GN58446	0.10	0.024	mg/l	2	2.17	108.5	90-110%
Sulfate	GP2883/GN58481	10	0.0	mg/l	80	81.8	102.3	90-110%
Sulfide	GN58251	2.0	0.0	mg/l	4.80	4.7	97.9	80-120%
Sulfide	GN58251			mg/l	9.60	9.4	97.9	80-120%
Total Organic Carbon	GP2785/GN58271	1.0	0.0	mg/l	10	9.69	96.9	90-110%

Associated Samples:

Batch GP2785: MC49399-13, MC49399-15
Batch GP2843: MC49399-13, MC49399-15
Batch GP2883: MC49399-13, MC49399-15
Batch GN58251: MC49399-13, MC49399-15
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Nitrogen, Nitrate + Nitrite	GP2843/GN58446	MC49399-15	mg/l	0.055	0.048	37.0(a)	0-22%
Sulfide	GN58251	MC49399-13	mg/l	0.0	0.0	0.0	0-13%

Associated Samples:

Batch GP2843: MC49399-13, MC49399-15

Batch GN58251: MC49399-13, MC49399-15

(*) Outside of QC limits

(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC49399
Account: ALNE - SGS Accutest New England
Project: FDG: NRG Montville Lathrop Road, Montville, CT

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Nitrogen, Nitrate + Nitrite	GP2843/GN58446	MC49399-15	mg/l	0.055	1	1.1	106.7	90-110%
Sulfide	GN58251	MC49399-15	mg/l	0.0	3.3	3.0	90.9	42-143%

Associated Samples:

Batch GP2843: MC49399-13, MC49399-15

Batch GN58251: MC49399-13, MC49399-15

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits